

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

FM-4804

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/000561

International filing date (day/month/year)

19.01.2005

Priority date (day/month/year)

19.01.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

mitsubishi gas chemical company, inc.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/000561

| Box No. I | Basis of this opinion |
|-----------|--|
| 1. | <p>With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.</p> <p><input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).</p> |
| 2. | <p>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</p> <p>a. type of material</p> <p><input type="checkbox"/> a sequence listing</p> <p><input type="checkbox"/> table(s) related to the sequence listing</p> <p>b. format of material</p> <p><input type="checkbox"/> in written format</p> <p><input type="checkbox"/> in computer readable form</p> <p>c. time of filing/furnishing</p> <p><input type="checkbox"/> contained in the international application as filed.</p> <p><input type="checkbox"/> filed together with the international application in computer readable form.</p> <p><input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.</p> |
| 3. | <p><input type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.</p> |
| 4. | <p>Additional comments:</p> |

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/000561

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|-----|-----|
| Novelty (N) | Claims | 7-9 | YES |
| | Claims | 1-6 | NO |
| Inventive step (IS) | Claims | | YES |
| | Claims | 1-9 | NO |
| Industrial applicability (IA) | Claims | 1-9 | YES |
| | Claims | | NO |

2. Citations and explanations:

Document 1: Journal of Supramolecular Chemistry, 2003, Volume Date 2002, 2 (1-3), pp. 247-254
 Document 2: Tribology Transactions, 1997, 40 (2), pp. 279-282
 Document 3: Languir, 1996, 12 (9), pp. 2207-2213
 Document 4: Kolorisztikai Ertesito, 1983, 24 (3), pp. 142-147
 Document 5: JP, 9-71766, A (ADEKA CORPORATION), 18 March, 1997 (18.03.97), pp. 2-5 & EP, 761780, A2 & US, 5753731, A
 Document 6: JP, 9-67563, A (ADEKA CORPORATION), 11 March, 1997 (11.03.97), pp. 2-4 & EP, 761779, A2 & US, 5977398, A
 Document 7: JP, 2003-64346, A (KYODO YUSHI CO., LTD.), 5 March, 2003 (05.03.03), pp. 2-3

Claims 1-6

Inventions related to claims 1-6 do not appear to be novel and inventive on account of the documents 1-4 cited in the ISR.

Documents 1-4 describe a triphenylmethane compound having a urea group or a urethane group.

Claims 7-9

Inventions related to claims 7-9 do not appear to be inventive on account of documents 1-7.

Documents 5-7 describe that a compound having a urea group or a urethane group is useful as a gelling agent, so that using the triphenylmethane compound described in documents 1-4 as a gelling agent would have easily been done by a person skilled in the art.

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Applicant

MITSUBISHI GAS CHEMICAL COMPANY, INC.

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Box No. I

Basis of this opinion

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☐ This opinion has been established on the basis of a translation from the original language into the following language
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☐ a sequence listing
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4. Additional comments:

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INTERNATIONAL SEARCHING AUTHORITY**

International application No.

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| | | | |
|--|---|-----|-----|
| Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement | | |
| 1. Statement | | | |
| Novelty (N) | Claims | 7-9 | YES |
| | Claims | 1-6 | NO |
| Inventive step (IS) | Claims | | YES |
| | Claims | 1-9 | NO |
| Industrial applicability (IA) | Claims | 1-9 | YES |
| | Claims | | NO |
| 2. Citations and explanations: | | | |
| <p>Document 1: Journal of Supramolecular Chemistry, 2003, Volume Date 2002, 2 (1-3), pp. 247-254</p> <p>Document 2: Tribology Transactions, 1997, 40 (2), pp. 279-282</p> <p>Document 3: Languir, 1996, 12 (9), pp. 2207-2213</p> <p>Document 4: Kolorisztikai Ertesito, 1983, 24 (3), pp. 142-147</p> <p>Document 5: JP, 9-71766, A (ADEKA CORPORATION), 18 March, 1997 (18.03.97), pp. 2-5 & EP, 761780, A2 & US, 5753731, A</p> <p>Document 6: JP, 9-67563, A (ADEKA CORPORATION), 11 March, 1997 (11.03.97), pp. 2-4 & EP, 761779, A2 & US, 5977398, A</p> <p>Document 7: JP, 2003-64346, A (KYODO YUSHI CO., LTD.), 5 March, 2003 (05.03.03), pp. 2-3</p> <p>Claims 1-6 Inventions related to claims 1-6 do not appear to be novel and inventive on account of the documents 1-4 cited in the ISR. Documents 1-4 describe a triphenylmethane compound having a urea group or a urethane group.</p> <p>Claims 7-9 Inventions related to claims 7-9 do not appear to be inventive on account of documents 1-7. Documents 5-7 describe that a compound having a urea group or a urethane group is useful as a gelling agent, so that using the triphenylmethane compound described in documents 1-4 as a gelling agent would have easily been done by a person skilled in the art.</p> | | | |